

19-OCT-09
16:34:54

GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

63.29' CURB-TO-CURB; 8 BEAMS; 110.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
66.540	3.625	3.625	33.270	8	58.455	5	3	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.513	8.502	8.502	8.502	8.502	8.502	8.502	8.502												

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
13.000	20.270	20.270		

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	0.7321	42.793
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.0845	63.392
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.7189	100.478
4	1.2943	75.657
5	0.0713	4.167
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 4 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.7189	100.478
4	1.7525	102.444
5	1.3656	79.824
6	0.2475	14.466
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 5 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.7189	100.478
4	1.7525	102.444
5	1.6476	96.311
6	1.5418	90.123
7	0.4237	24.765
8	0.0000	0.000

LIVE LOAD CASE # 6 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.7321	42.793
8	1.2679	74.117

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	1.0844	63.391
7	1.6476	96.311
8	1.2679	74.117

LIVE LOAD CASE # 8 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0713	4.166
5	1.2943	75.657
6	1.7189	100.478
7	1.6476	96.311
8	1.2679	74.117

LIVE LOAD CASE # 9 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.2475	14.466
4	1.3656	79.824
5	1.7525	102.444
6	1.7189	100.478
7	1.6476	96.311
8	1.2679	74.117

LIVE LOAD CASE # 10 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4237	24.765
3	1.5418	90.123
4	1.6476	96.311
5	1.7525	102.444
6	1.7189	100.478
7	1.6476	96.311
8	1.2679	74.117

LIVE LOAD CASE # 11 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.3529	20.626
4	1.2943	75.657
5	0.3529	20.626
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.3529	20.626
4	1.2943	75.657
5	0.3529	20.626
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

1	0.0000	0.000
2	0.5291	30.926
3	1.6471	96.284
4	1.4709	85.984
5	0.3529	20.626
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.5291	30.926
3	1.6471	96.284
4	1.6476	96.311
5	1.6471	96.284
6	0.5291	30.926
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 14 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7052	41.225
2	1.8233	106.583
3	1.6476	96.311
4	1.6476	96.311
5	1.6471	96.284
6	0.5291	30.926
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 15 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7052	41.225
2	1.8233	106.583
3	1.6476	96.311
4	1.6476	96.311
5	1.6476	96.311
6	1.8233	106.583
7	0.7052	41.225
8	0.0000	0.000

LIVE LOAD CASE # 16 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4410	25.776
4	1.5590	91.134

5	1.5590	91.134
6	0.4410	25.776
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 17 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6171	36.075
3	1.7352	101.433
4	1.6476	96.311
5	1.5590	91.134
6	0.4410	25.776
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 18 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6171	36.075
3	1.7352	101.433
4	1.6476	96.311
5	1.6476	96.311
6	1.7352	101.433
7	0.6171	36.075
8	0.0000	0.000

LIVE LOAD CASE # 19 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8810	51.497
2	1.7362	101.488
3	1.7352	101.433
4	1.6476	96.311
5	1.6476	96.311
6	1.7352	101.433
7	0.6171	36.075
8	0.0000	0.000

LIVE LOAD CASE # 20 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	0.7321	42.793
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.7321	42.793
8	1.2679	74.117

LIVE LOAD CASE # 21 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.0845	63.392
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.7321	42.793
8	1.2679	74.117

LIVE LOAD CASE # 22 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.0845	63.392
4	0.0000	0.000
5	0.0000	0.000
6	1.0844	63.391
7	1.6476	96.311
8	1.2679	74.117

LIVE LOAD CASE # 23 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2679	74.117
2	1.6476	96.311
3	1.7189	100.478
4	1.2943	75.657
5	0.0713	4.167
6	1.0844	63.391
7	1.6476	96.311
8	1.2679	74.117

19-OCT-09 16:34:54 GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN SUMMARY OF THE LIVE LOAD CASE PROGRAM REVISED: JUNE 26, 2008 PROB. NO. LL01

63.29' CURB-TO-CURB; 8 BEAMS; 110.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
66.540	3.625	3.625	33.270	8	58.455	5	3	5.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.513	8.502	8.502	8.502	8.502	8.502	8.502	8.502												
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
13.000	20.270	20.270																	
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	1	74.117	42.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	2	74.117	96.311	63.392	0.000	0.000	0.000	0.000	0.000	0.000								

LL-63-8-110.OUT												
LL CASE 3	3	3	74.117	96.311	100.478	75.657	4.167	0.000	0.000	0.000	0.000	0.000
LL CASE 4	4	4	74.117	96.311	100.478	102.444	79.824	14.466	0.000	0.000	0.000	0.000
LL CASE 5	5	5	74.117	96.311	100.478	102.444	96.311	90.123	24.765	0.000	0.000	0.000
LL CASE 6	6	1	0.000	0.000	0.000	0.000	0.000	0.000	42.793	74.117	0.000	0.000
LL CASE 7	7	2	0.000	0.000	0.000	0.000	0.000	63.391	96.311	74.117	0.000	0.000
LL CASE 8	8	3	0.000	0.000	0.000	4.166	75.657	100.478	96.311	74.117	0.000	0.000
LL CASE 9	9	4	0.000	0.000	14.466	79.824	102.444	100.478	96.311	74.117	0.000	0.000
LL CASE 10	10	5	0.000	24.765	90.123	96.311	102.444	100.478	96.311	74.117	0.000	0.000
LL CASE 11	11	1	0.000	0.000	20.626	75.657	20.626	0.000	0.000	0.000	0.000	0.000
LL CASE 12	12	2	0.000	30.926	96.284	85.984	20.626	0.000	0.000	0.000	0.000	0.000
LL CASE 13	13	3	0.000	30.926	96.284	96.311	96.284	30.926	0.000	0.000	0.000	0.000
LL CASE 14	14	4	41.225	106.583	96.311	96.311	96.284	30.926	0.000	0.000	0.000	0.000
LL CASE 15	15	5	41.225	106.583	96.311	96.311	96.311	106.583	41.225	0.000	0.000	0.000
LL CASE 16	16	2	0.000	0.000	25.776	91.134	91.134	25.776	0.000	0.000	0.000	0.000
LL CASE 17	17	3	0.000	36.075	101.433	96.311	91.134	25.776	0.000	0.000	0.000	0.000
LL CASE 18	18	4	0.000	36.075	101.433	96.311	96.311	101.433	36.075	0.000	0.000	0.000
LL CASE 19	19	5	51.497	101.488	101.433	96.311	96.311	101.433	36.075	0.000	0.000	0.000
LL CASE 20	20	2	74.117	42.793	0.000	0.000	0.000	0.000	42.793	74.117	0.000	0.000
LL CASE 21	21	3	74.117	96.311	63.392	0.000	0.000	0.000	42.793	74.117	0.000	0.000
LL CASE 22	22	4	74.117	96.311	63.392	0.000	0.000	63.391	96.311	74.117	0.000	0.000
LL CASE 23	23	5	74.117	96.311	100.478	75.657	4.167	63.391	96.311	74.117	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1 74117	0	42792	0	0	0	0	0	0	0	0	0	0
62	0	0										
61LL 2 2 74117	0	96311	0	63391	0	0	0	0	0	0	0	0
62	0	0										
61LL 3 3 74117	0	96311	0100477	75657	0	0	4166	0	0	0	0	0
62	0	0										
61LL 4 4 74117	0	96311	0100477102444	0	0	79823	14465	0	0	0	0	0
62	0	0										
61LL 5 5 74117	0	96311	0100477102444	0	0	96311	90123	0	24765	0	0	0
62	0	0										
61LL 6 1	0	0	0	0	0	0	0	0	0	0	42792	0
62	0	74117										
61LL 7 2	0	0	0	0	0	0	0	63391	0	96311	0	0
62	0	74117										
61LL 8 3	0	0	0	0	4166	0	0	75657100477	0	96311	0	0
62	0	74117										
61LL 9 4	0	0	0	14465	79823	0	0	102444100477	0	96311	0	0
62	0	74117										
61LL10 5	0	0	24765	0	90123	96311	0	0	102444100477	0	96311	0
62	0	74117										
61LL11 1	0	0	0	0	20626	75657	0	0	20626	0	0	0
62	0	0										
61LL12 2	0	0	30925	0	96283	85984	0	0	20626	0	0	0
62	0	0										
61LL13 3	0	0	30925	0	96283	96311	0	0	96283	30925	0	0
62	0	0										
61LL14 4 41225	0	0106583	0	96311	96311	0	0	96283	30925	0	0	0
62	0	0										
61LL15 5 41225	0	0106583	0	96311	96311	0	0	96311106583	0	41225	0	0
62	0	0										
61LL16 2	0	0	0	0	25776	91133	0	0	91133	25776	0	0
62	0	0										
61LL17 3	0	0	36075	0101433	96311	0	0	91133	25776	0	0	0
62	0	0										
61LL18 4	0	0	36075	0101433	96311	0	0	96311101433	0	36075	0	0
62	0	0										
61LL19 5 51497	0	0101488	0101433	96311	0	0	96311101433	0	36075	0	0	0
62	0	0										
61LL20 2 74117	0	42792	0	0	0	0	0	0	0	0	42792	0
62	0	74117										
61LL21 3 74117	0	96311	0	63391	0	0	0	0	0	0	42792	0
62	0	74117										
61LL22 4 74117	0	96311	0	63391	0	0	0	0	63391	0	96311	0
62	0	74117										
61LL23 5 74117	0	96311	0100477	75657	0	0	4166	63391	0	96311	0	0
62	0	74117										